U

USSR/General Problems of Pathology - Tumors. Experimental Therapy.

: Ref Zhur Biol., No 5, 1959, 22806 Abs Jour

Author

Gluzman, F.A.

Inst

The Influence of Various Methods of Hypothermia on the

Development of Experimental New Formation. Title

Orig Pub

: Vrachebn. delo, 1957, No 12, 1341-1342

Abstract

The experiments were conducted on the rabbit carcinoma of Brown-Pierce, rats' tumors and induced carcinoma of mice, induced by 9, 10-dimethyl-1,2-benzanthracene. It was noted that in hypothermia by means of ether and ice, the growth of transplanted tumors and induced carcinoma of the skin is retarded and metastasing decreases. In early removal of the tumor the degree of development of recurrences is smaller. In hypothermia according to the method of Dzhiayya (carbon dioxide and cold), during the

Card 1/2

- 21 -

CIA-RDP86-00513R0006155100

GLUZMAN, F.A. [Hluzman, F.A.], dots.

Hibernation therapy in the case of premature infants; a survey of the literature. Ped., akush. i gin. 19 no.3:60-61 157. (MIRA 13:1)

1. Kafedra patologicheskoy fiziologii (mav. - deystvitel'nyy chlen AMN USSR prof. M.N. Sirotinin) Kiyavskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta im. akad. A.A. Bogomol'tsa (direktor - dots. I.P. Alekseyenko).

(INFANT (PREMATURE) -- CARE AND HYGIENE) (HIBERNATION, ARTIFICIAL)

GIUZMAN, F.A., dotsent, red.; LIKHTENSHTEYN, Ye.I., red. TSHTEYN, A.D., tekhred.

[Physiology and pathology of the cardiovascular system in clinical treatment and experiment; a collection of papers] Fisiologiia i patologiia serdechne-sesudistei sistemy v klinike i eksperimente; sbornik trudev. Kiev, Gos.med. izd-ve USSR, 1958. 444 p. (NIRA 12:6)

1. Kiyev. Mediteinukiy institut. (CARDIOVASCULAR SYSTEM--DISEASES)

GLUZMAN, F. A., Doc Med Sci (diss) -- "Problems of the reactivity of the organism in malignant growth". Kiev, 1959. 30 pp (Kiev Order of Labor Red Banner Med Inst im Acad A. A. Bogomolets), 250 copies (KL, No 22, 1959, 120)

GLUZMAN, F.A. dotsent Hypophysis-adrenal cortex system and malignant growth. Vrach. (MIRA 12:6) delo no.2:165-167 1 '59. 1. Kafedra patologicheskoy fiziologii (zav. - deystv.chlen ANU SSSR, prof.N.N.Sirotinin) Kiyevskogo meditsinskogo (CANCER) (ADRIMAL CORTEX) (PITUITARY BODY)

> CIA-RDP86-00513R000615510002-1" APPROVED FOR RELEASE: 09/19/2001

PEYSAKHOVICH, Iosif Mironovich, prof.; KOL'NER, dakhil' Yul'yevna; KOREMEV-SKIY, Leonid Ivanovich; LEVCHUK, Georgiy Antonovich; MAZURENKO, Ni-kolay Petrovich; POLONSKIY, Boris Leonidovich; SAVITSKIY, Vasiliy Nikolayevich; TELENGATOR, Yakov Moisyevich; UNANSKIY, Yulian Aleksan-drovich; GLUZMAN, F.A., red.; RAYZ, A.L., tekhn. red.

[Drug therapy for malignant tumors] Khimioterapiia zlokachestvennykh opukholei. Kiev, Gos. med. izd-vo USSR, 1961. 304 p.
(MIRA 14:11)
(CANCER)

GLUZMAN, F.A. [Illuzman, F.A.]

Effect of cortisone on connective tissues in case of malignant growths. Fiziol. zhur. [Ukr.] 7 no.6:824-829 (MRA 15:3)

1. Kafedra patologicheskoy fiziologii Kiyevakogo meditainakogo instituta im. akad. A.A. Begomel'tsa. (CORTISORE)

(CONNECTIVE TISSUES)

(CANCER)

FEDOROV, Ivan Ignat'yevich, prof.; SIROTIN, N.N., prof., retsenzent; GLUZMAN, F.A., rod.; GITSHTEYN, A.D., tekhm. red.; CHUCHUPAK, V.D., tekhm. red.

[Principles of pathological physiclogy] Osnovy patologicheskoi fiziologii. Kiev, Gosmedizdat, USSR, 1962. 385 p. (MIRA 15:6)

1. Akademiya meditsinskikh nauk JSSR (for Sirotin).

(PHYSIOLOGY, PATHOLOGICAL)

KAVETSKIY, Rostislav Yevgen'yevich[Kavetskyi, R.E.]; GLUZMAN, F.A., red.; RAYZ, A.L., tekhn. red.

[Tumor and the body]Opukhol' i organizm. Kiev, Gosmediadat USSR, 1962. 298 p. (ONCOLOGY)

PLOTICHER, Sarra Moise; evna; GLUZYAN, F.A., red.; CHUCEUTAK, V.D., tekhn. red.

[Diagnostic laboratory studies] Laboratornye diagnostiche-skie issledovaniia. Kiev, Gomedizdat USSK, 1962. 520 p. (MIKA 16:12)

(DIAGNOSIS)

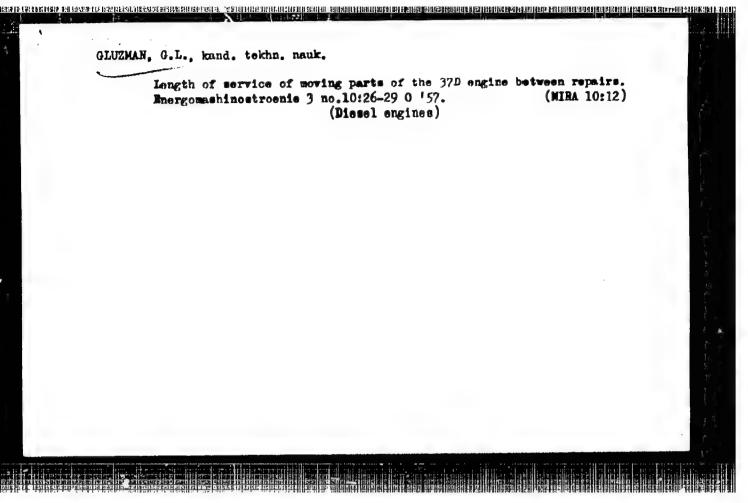
GLUZMAN, G.

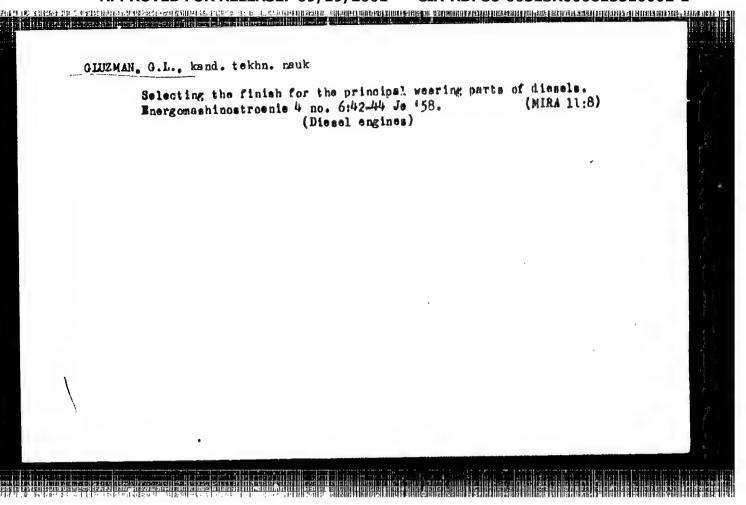
This is real news! Mest.prom.i khud. promys. 3 no.1t10 Ja '63.

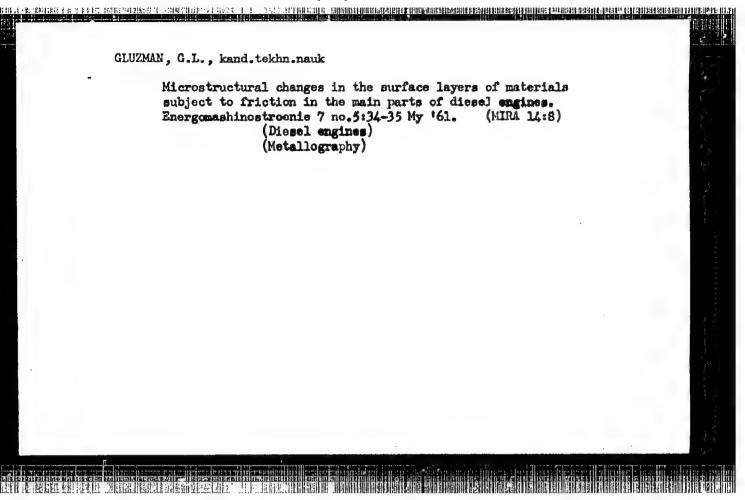
(MIdA 16:2)

1. Starshiy inzhener Kiyevakogo proyektno-konstruktorskogo byuro gorodskogo upravleniya bytovogo obsluzhivaniya.

(Kier-Service industries)







5/114/62/000/012/002/007 E194/E135

Gluzman, G.L., Candidate of Technical Sciences, and AUTHORS:

Purgin, B.A., Engineer

Assessing the reliability of power sets TITLE:

PERIODICAL: Energomashinostroyeniye 7-no.12, 1962, 17-20

As power plant becomes more complicated and more highly stressed a need is felt for quantitative assessment of reliability by means of the theory of probability. The following criteria are studied:

1) "the mean time of continuous operation";

(1)

where  $t_i$  is the operating time of one particular item; number of items of the particular type. This is a simple and revealing index which in effect compares the performance with that of similar plant. Its main disadvantage is that being a Card 1/3

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Assessing the reliability of ... S/114/62/000/012/002/007 E194/E135

correctly at the start and end of the time interval. This is a convenient characteristic of reliability for power equipment as it demonstrates changes of reliability with time and is easily determined experimentally. It can also be used to determine other criteria of reliability including the mean duration of repair work and the ratio of standstill time to running time. Worked examples are given of the use of these criteria in studying the performance of a diesel engine. There is a particular need for extensive service performance data, but once this is available it becomes possible to set up specific requirements in respect of the reliability of power equipment expressed in numerical terms. There are 2 figures and 1 table.

Card 3/3

CONTROL OF THE PROPERTY OF THE

GLUZMAN, G.L., kand. tekhm. nauk; BUKIN, P. Ye., inzh.-kapitan 2-go ranga, kand. tekhm. nauk

Evaluation of the serviceability of power units of surface ships. Mor. sbor. 49 no. 12:68-71 D | 65 (MIRA 19:1)

CONTROL OF A 12 SECTION OF A 1 EWT(1) TG 29720-66 SOURCE CODE: UR/0375/65/000/012/0069/0071 ACC NR: AP6015406 AUTHOR: Gluzman, G. L. (Candidate of technical sciences); Bukin, P. Ye. (Candidate 40) of technical sciences; Engineer; Commander) ORG: none TITLE: Evaluating the operational reliability of power stations on surface craft SOURCE: Morskoy sbornik, no. 12, 1965, 68-71 TOPIC TAGS: statistic analysis, power plant, reliability theory, maine any ABSTRACT: The methods of statistical analysis are used for determining the operational reliability of shipboard power stations. The probability of dependable operation of the individual mechanisms is taken as the principal criterion for reliability. This criterion should be given by designers and implemented by industry. Reliability of the power installations is evaluated from the probability for maintaining 100% power as well as at least 75%, 50% and 25% of the rated power and finally the probability for total power loss. These criteria may be used for determining the reliability of the power stations in normal operating conditions as well as in emergency situations. An example is given showing evaluation of the reliability of a turbine boiler installation. Graphs are given which may be used to determine the probability of dependable operation of a power installation when the reliability of the individual units in the Card 1/2

ACC NR: AP6015406				0.
bility of dependable Therefore, these con Formulas are given tas well as for the a figures, 7 formulas	e operation depends nditions should be which may be used t average repair time	er protracted use.  on the working conditions of the strictly defined being account for the sland breakdown frequency	litions of the in fore a ship leave cill of servicing	stallation. s port. personnel
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Hides and Shins

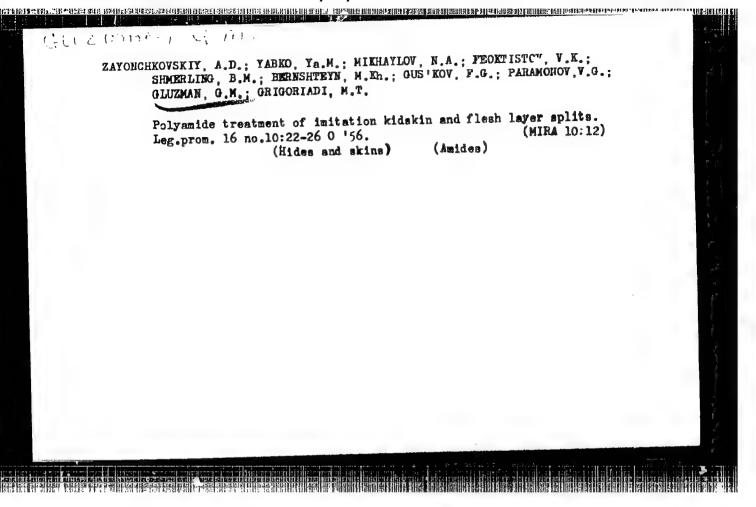
Fermentative and thermal central in lightly hides. Leg. prom., No. 1, 1952.

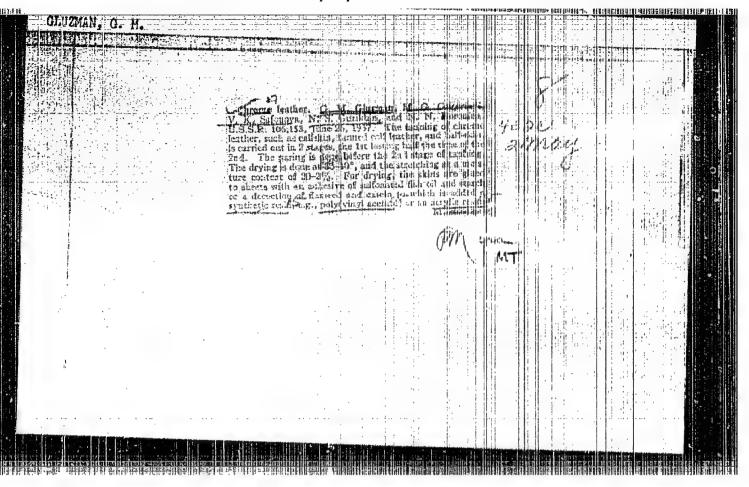
9. Monthly List of Russian Accessions, Library of Congress, March 1958, Uncl.

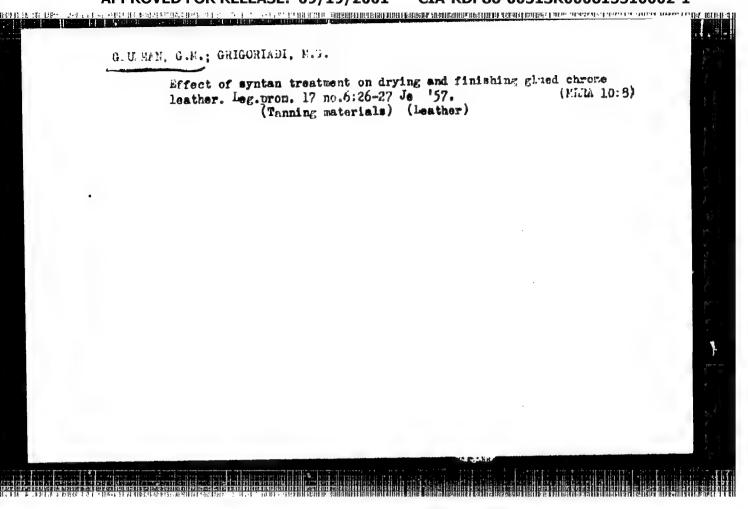
GLUZMAN, G.M., inzhener.

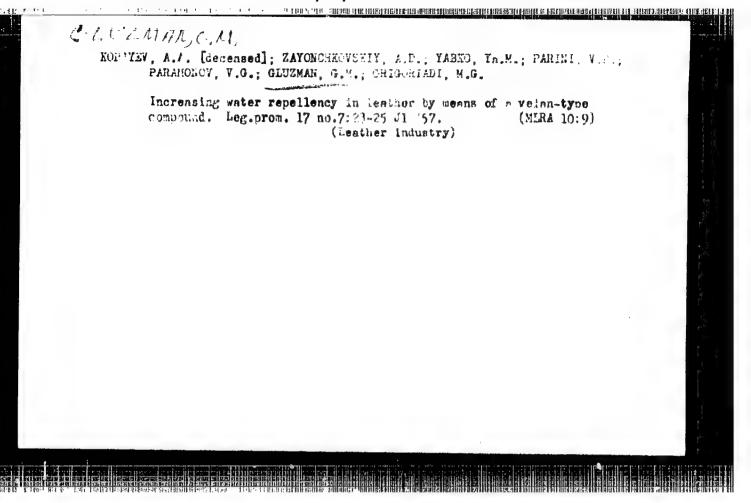
Drying leather glued on glass. Leg.pros.15 no.1:40-42 Ja 155.
(Dyes and dyeing—Leather)

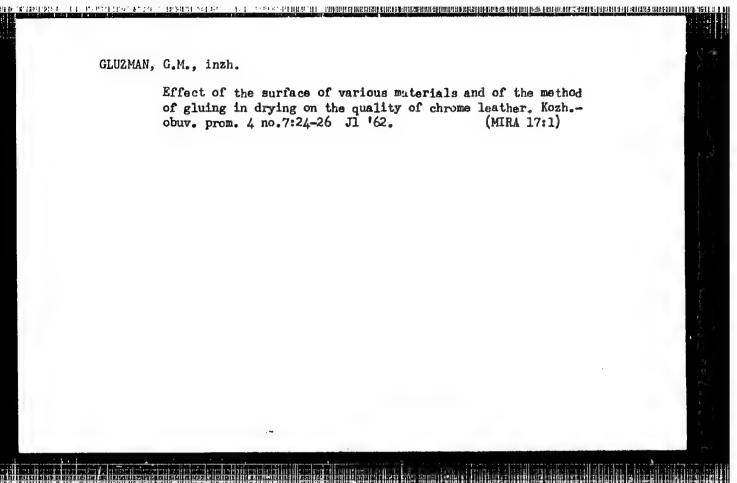
(MIRA 8:3)

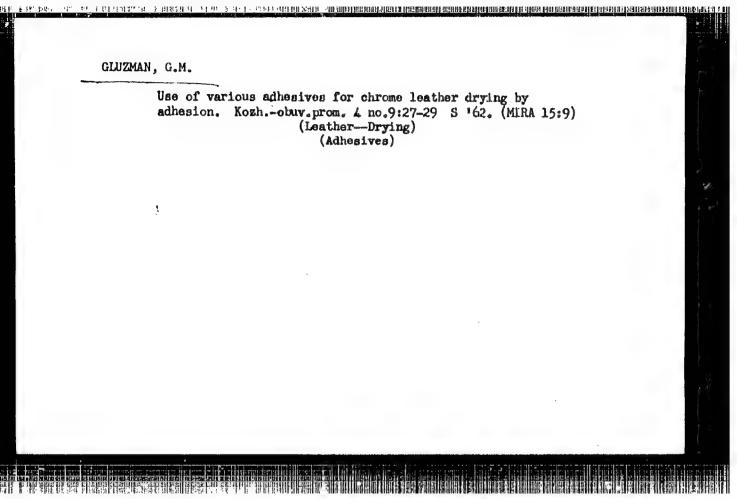


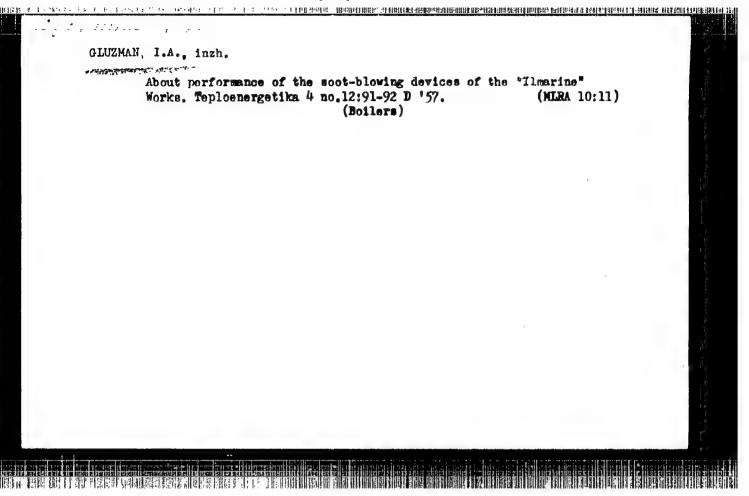












AUTHORS: Kreysler, A. A.; Gorodetskiy, K. I.; Glusman, I. A.  ORG: none  TITLE: An axial piston pump. Class 59, No. 177774	) 3 22 B
ORG: none	
TITLE: An axial piston pump. Class 59. No. 177774	2
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no	. 1, 1966, 140
TOPIC TAGS: axial pump, fluid pump	
ABSTRACT: This Author Certificate presents an axial piston pump with the intake and with a rotating cylinder block. \The pump includes c with double-sided joints. One of the joints is connected with the other with the socket (see Fig. 1). The socket is mounted on one of the drive shaft flange and transmits the pressure force of the lathrough the hydrostatic bearing to the pump casing. The design red and increases the pump efficiency. The axial holes in the drive shallower through, and each socket mounted in the hole contacts its flawith the casing or is connected with a fixed part of the casing. It a recess in its flat face and is connected by axial channels to the and the piston and to the proper operating chamber. This arrangement	piston and the piston and the of the axial holes iquid being pumped luces the leakage aft flange run at face directly Each socket has a connecting rod

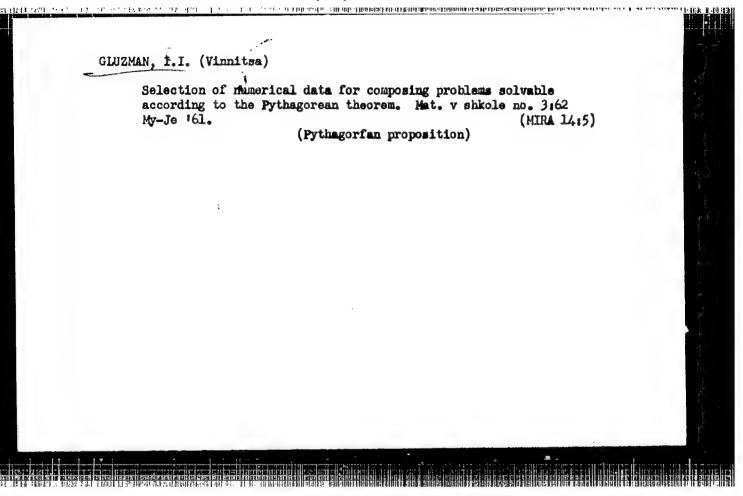
TAN ELEGIBETE DE LES INDESCRIONS ELEGIBERA EN LE SENDRE LE SENDRE LE REPORT DE LA CONTRACTION DEL CONTRACTION DE LA CONT

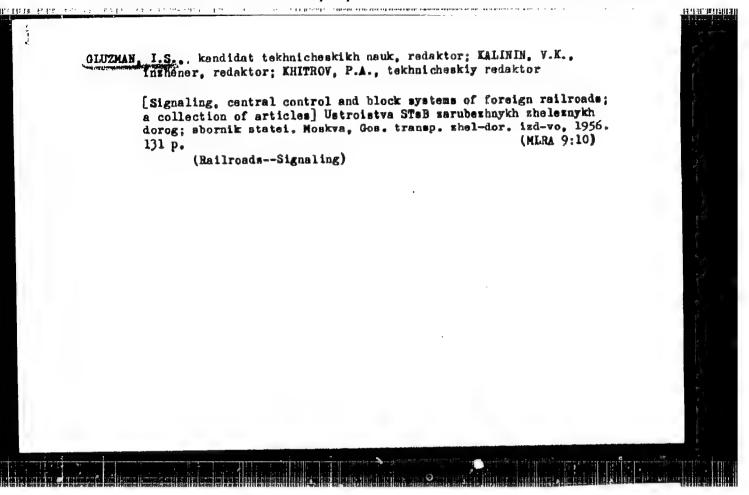
ACC NR: AP6005389 Fig. 1. 1 - cylinder block; 2 - connecting rods; 3 - pistons; 4 - socket; 5 - drive shaft; 6 - recess in the socket individual hydrostatic bearing of each piston and the correspondence between the has: 1 figure.

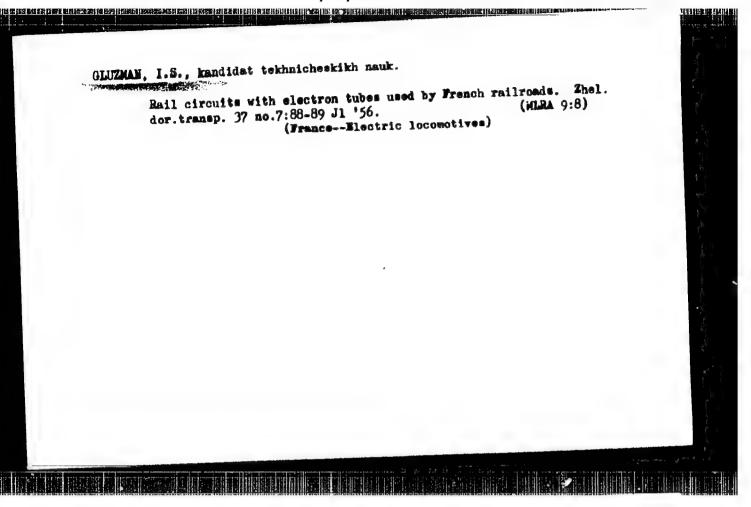
back pressure in the bearing and the pressure in the operating chamber. Orig. art.

SUB CODE: 13/ SUBM DATE: 02Jun62

Card 2/2







GLUZMAN, I.S., kand.tekhn.nsuk, red.; CHEKMENEV, N.M., insh., red.;
BOBROVA, Ye.W., tekhn.red.

[New methods in signal, central control, and blocking systems for railreads in other countries; a collection of articles] Nowsia railreads in step as sambashnykh shelssnykh dorogath; sbornik stetel. tekhnikm STaB na sambashnykh shelssnykh dorogath; sbornik stetel. Moskva, Gos. transp.shel-dor. isd-vo. 1957. 129 p. (MIRA 11:5)

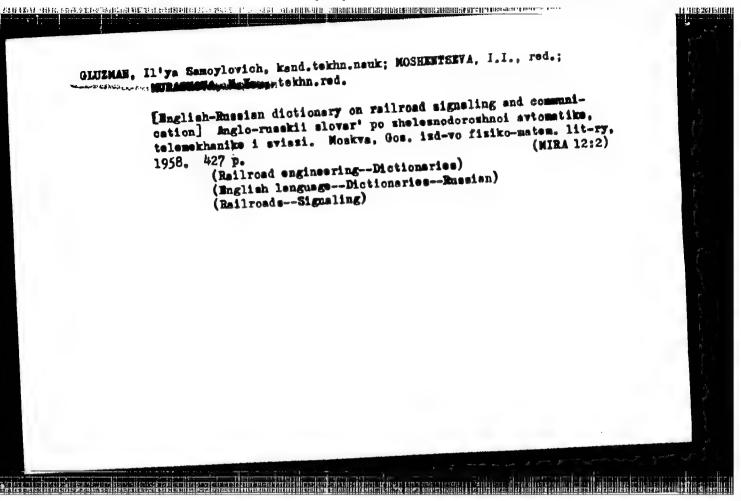
Moskva, Gos. transp.shel-dor. isd-vo. 1957. 129 p. (MIRA 11:5)

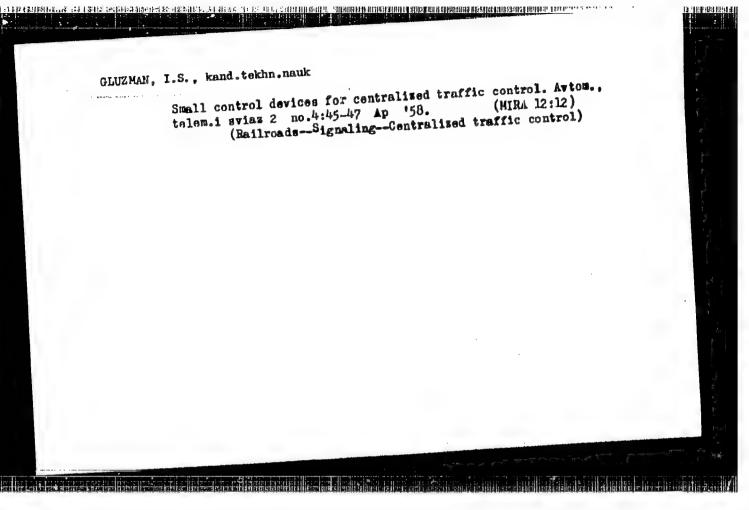
GLUZMAN, I.S.; KARNYUSHIN, L.V., dotsent.

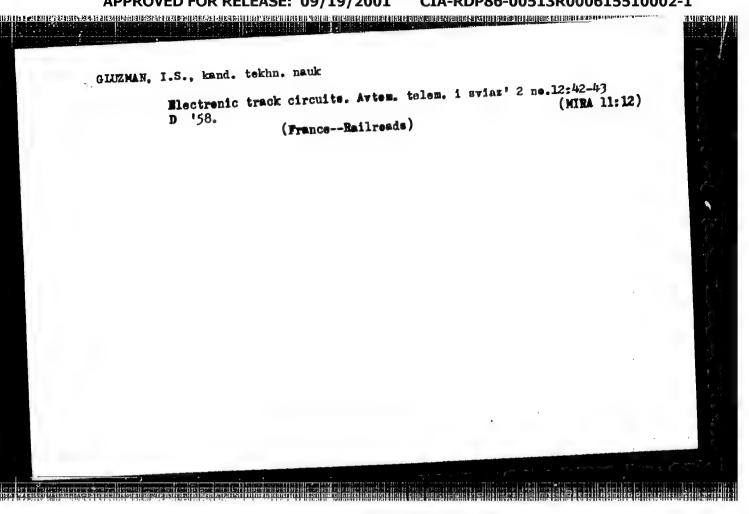
System of pneumatic transportation of steel specimens in metallurgical plants. Sav. lab. 23 no.4:502-503 '57. (MLRA 10:6)

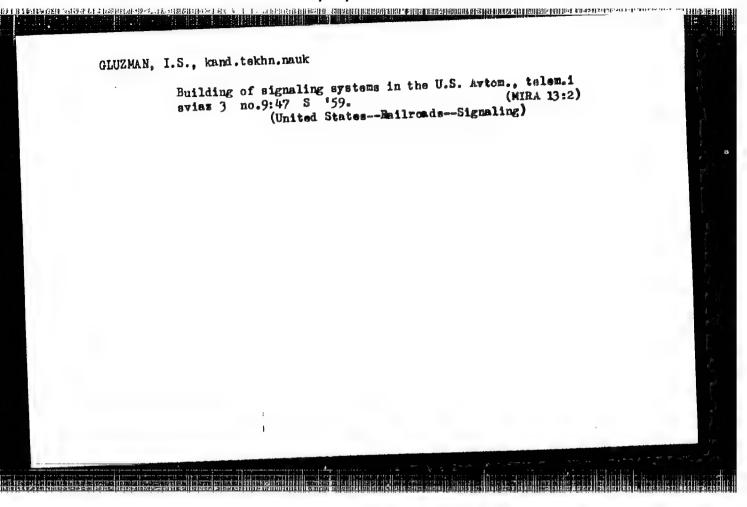
l. Master Beresnyakovskogo montashnogo upravleniya tresta "Uralelektromontash" (for Glusman). 2. Zaveduyushchiy kafedroy elektrifikatsii promyshlennykh predpiyatiy L'vovskogo politekhnicheskogo instituta (for Karnyushin).

(Pneumatic-tube transportation)









GLUZMAN. I.S., kend.tekhn.nauk; MARENKOVA, G.I., inzh., red.;
BORROVA, Ye.N., tekhn.red.

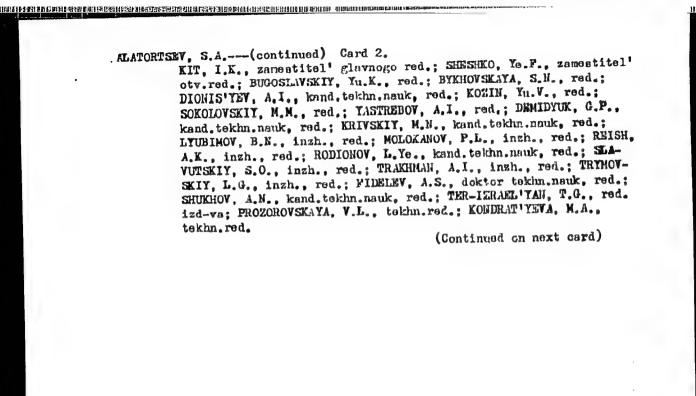
[New developments in automation and remote control on foreign
railroads; translated articles] Movoe v avtomatike i telemekhanike
na zarubezhnykh zheleznykh dorogakh; perevod statei. Moskva,
Vses.izdatel'sko-poligr.ob'edinenie M-va putei soobshchenita, 1960.

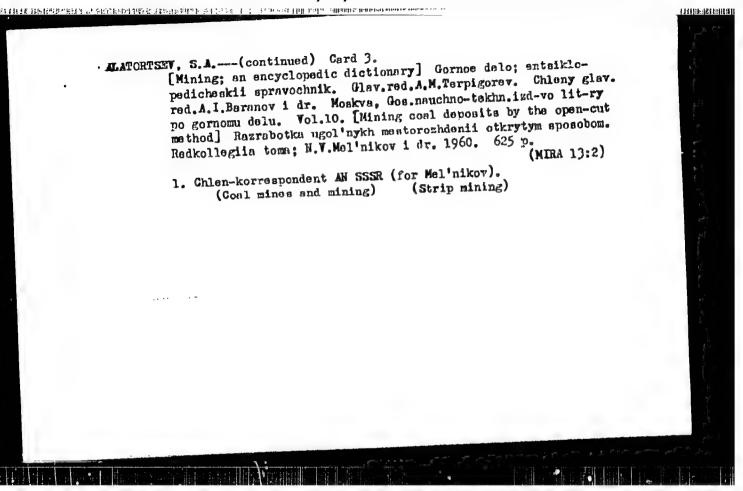
(MIRA 13:11)

(Railroads--Electronic equipment)
(Remote control)

(Automatic control)

GLUZMAN, 1.5. ALATORTSEV, S.A., prof., doktor tekhn.nauk; AMPREYEV, A.V., kond.tekhn. nouk; ANCHAROV, I.L., inzh.; BALINSKIY, S.I., inzh.; EELOUSOV, V.G., inzh.; VINHITSKIY, K.Ye., kand.tekhn.neuk; VLASOV, V.M., inzh.; VORONTSOV, N.P., kand.tekhn.nauk; GIPSMAN, M.K., inzh.; GLUZMAN, I.S., kand. tekhn. nauk; GUR'YHV, S.V., kand. tekhn. nauk [deceased]; DEMIN, A.M., kand.tekhn.nauk; TRGURNOV, G.P., kand.tekhn.nauk; YEFIMOV, I.P., inzh.; ZHUKOV, L.I., kand.tekhn. nauk; ZEL'TSER, N.M., inzh.; KOSAGHEV, M.N., kand.tekhn.nauk; KOTOV, A.F., inzh.: KUDINOV, G.P., inzh.; LAPOVENKO, N.A., kand. tekhn.nauk; MAZURCK, S.F., inzh.; MEL'NIKOV, H.V.; MUDRIK, N.G., inzh.; NIKONOV, G.P., kund. tekhn. nauk; ORLOV, Ye.I., inzh.; POTAPOV, M.G., kand. tekhn.nauk; PRISEDSKIY, G.V., inzh.; RZHEVSKIY, V.V., prof., doktor tekhn.nauk; RYAKHIN, V.A., kend. tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SITNIKOV, I.Ye., inzh.; SOROKIN, V.I., ingh.; STASYUK, V.N., kend.tekhn.nauk; STAKHEVICH, Ye.B., inzh.; SUSHCHENKO, A.A., inzh.; TYUTIN, I.F., inzh.; TYMOVSKIY, L.G., inzh.; FISENKO, G.L., kand. tekhn. nauk; FURMANOV, B.M., inzh.; SHATAYEV, M.G., inzh.; SHESHKO, Ye.F., prof., doktor tekhn.nauk; TERPIGOREV, A.K., glavnyy red. [deceased]; (Continued on next card)





GIUZMAN, I.S., dots., kand.tekhn.nauk

Signaling devices on French railroads. Avtom., telem. i sviaz'
4 mo.7:44-18 Jl '60.. (MIRA 13:7)

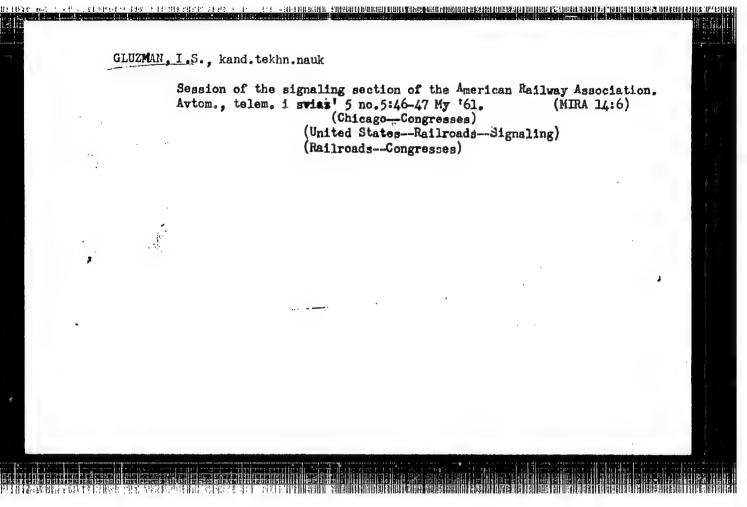
(France—Bailroads—Signaling)

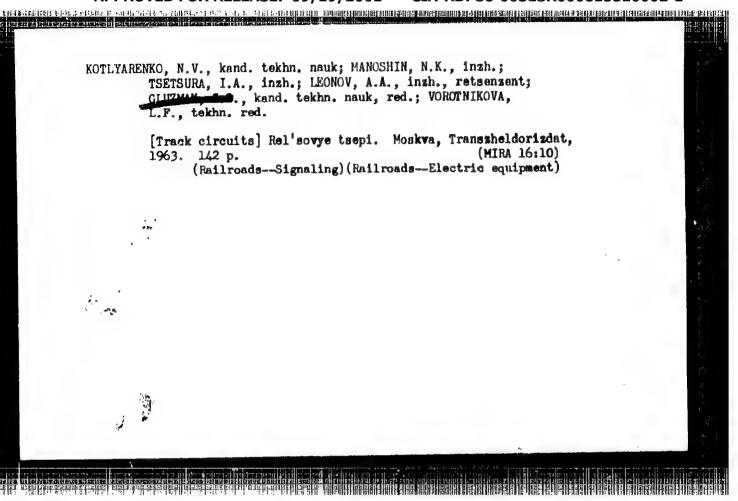
LUPAL, Nikolay Vasil'yevich; BOSIN, Matvey Itskovich; PREBECEOV,
Aleksandr Sergeyevich; SMIRHOVA, Appolinariya Vasil'yevna;
Ryler, Aleksandr Aleksandrovich; TSUKANOV, T.T., kand.
tekhn, nauk, retsensent; SMUFLOV, V.I., kand.tekhn, nauk,
retsensent; GLIZMAN, L.S., kand.tekhn, nauk, red.;
USHEKO, L.A., tekhn.red.

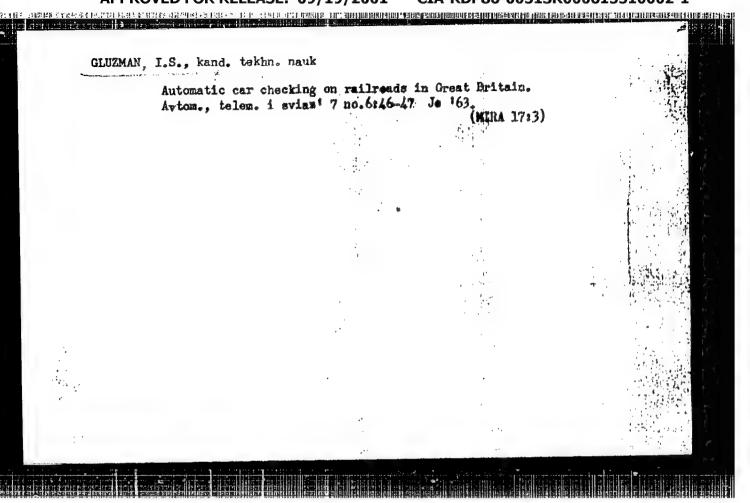
[Theoretical principles of automatic and remote control]
Teoreticheskie cancey avtomatiki i telesekhaniki. By N.V.
Lapal i dr. Moskva, Vese, idatel'sko-poligr.eb'edinanie
M-va putei soobshcheniia, 1961. 414 p.

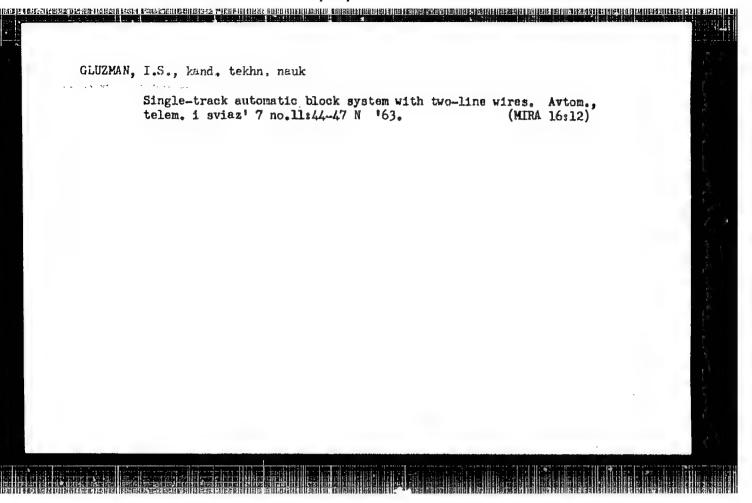
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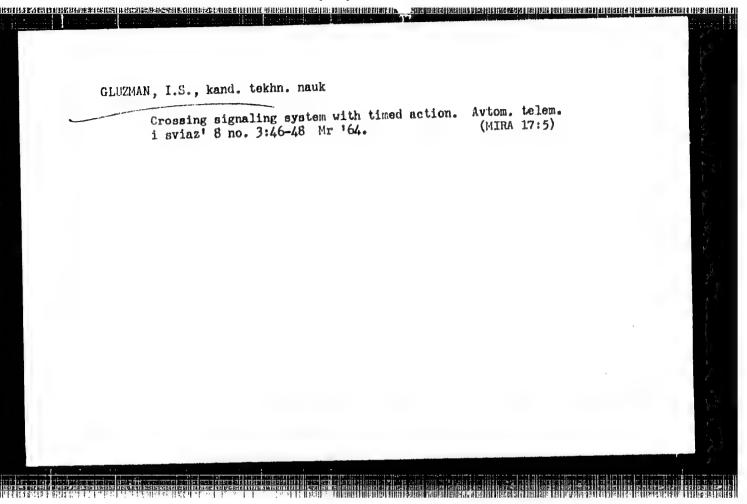
(Antomatic control) (Remote control)

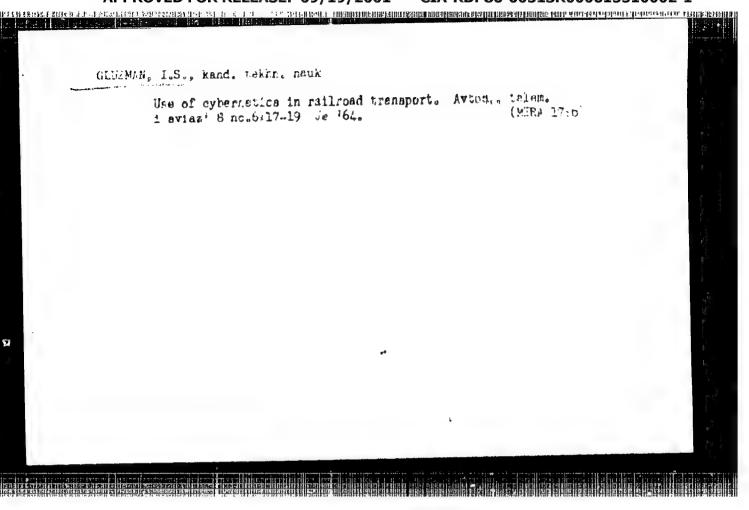












PERELORDY. Aleksandr Sergeyevich, kand. tekhn. nauk; SEDY,
Vikto Nikolayevich, kand. tekhn. nauk; RATKIROY,
Vladimir Dmitriyevich, inzh.; KAHVATSKIY, S.B., kand.
tekhn. nauk, retsonzent; GLUYMAN, I.S., red.

[Romote control of switches and signals] Teleupravlende
strelkami i signalami. Moskva, Transport, 1965. 383 p.

(MIRA 18:8)

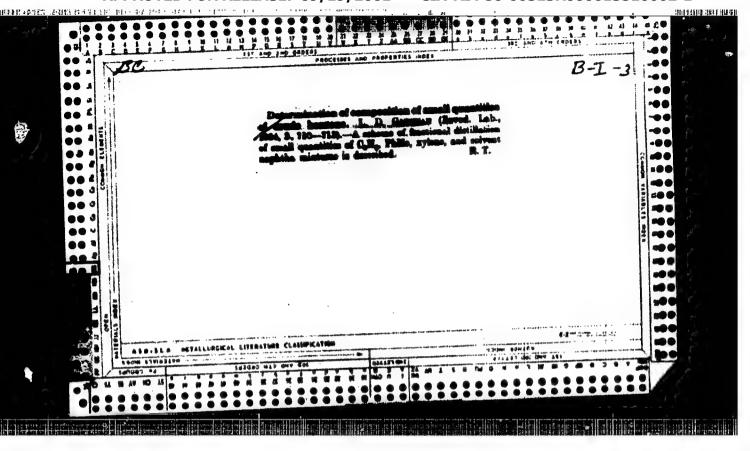
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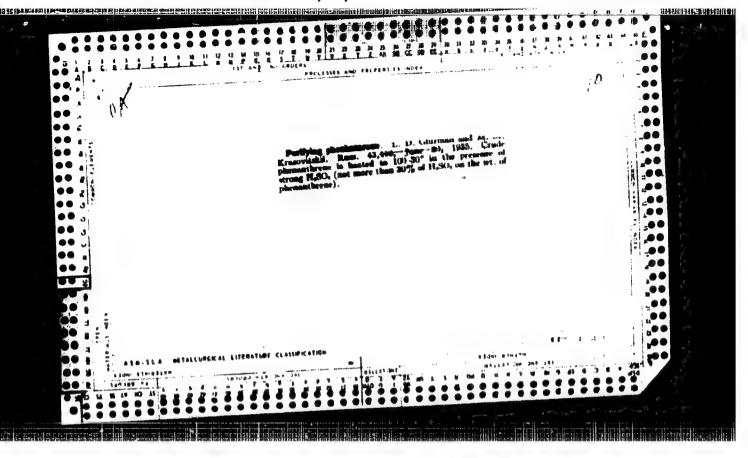
GAL'PERIM, Yu.S., podpolkovnik med. sluzhby, GLUZMAN, I.S., mayor med. sluzhby

Case of prolonged retention of a contrast medium in the nasolacrinal canal. Oft.zhur. 13 no.5:306-307 '58 (MIRA 11:10)

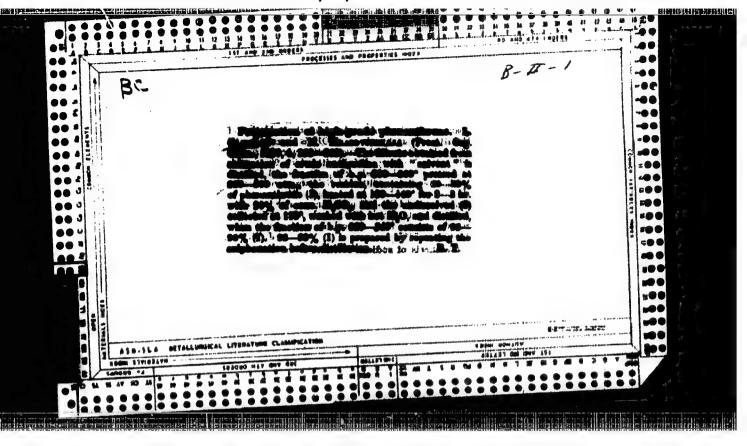
l. Iz Laringo-oto-rino kafedry im. prof. V.I. Voyacheka i kafedry oftal'mologii (nach. - prof. B.L. Polyak) Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.

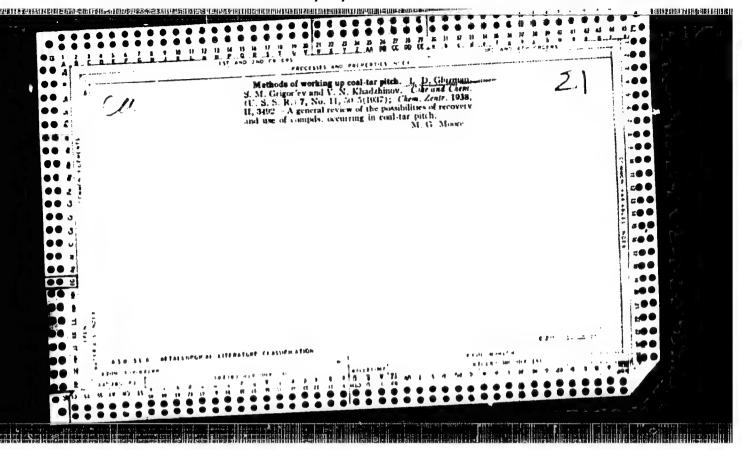
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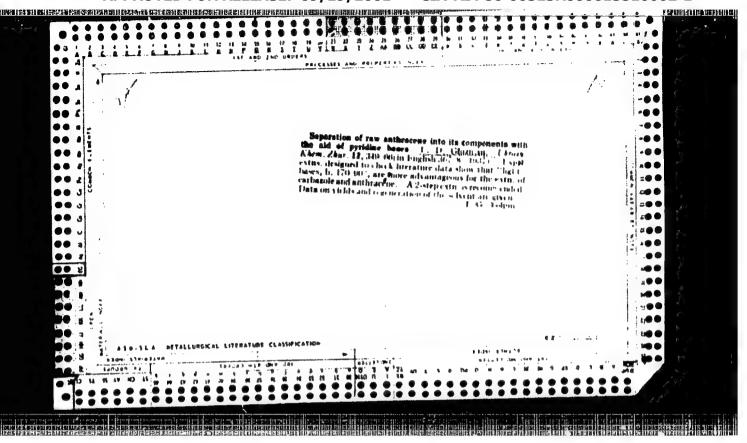


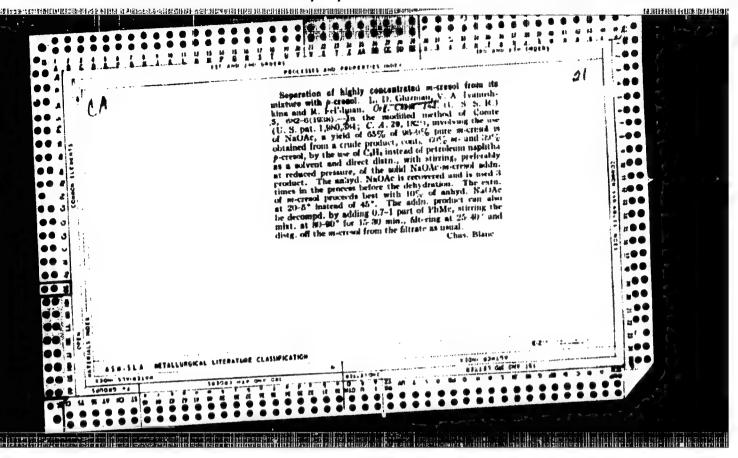


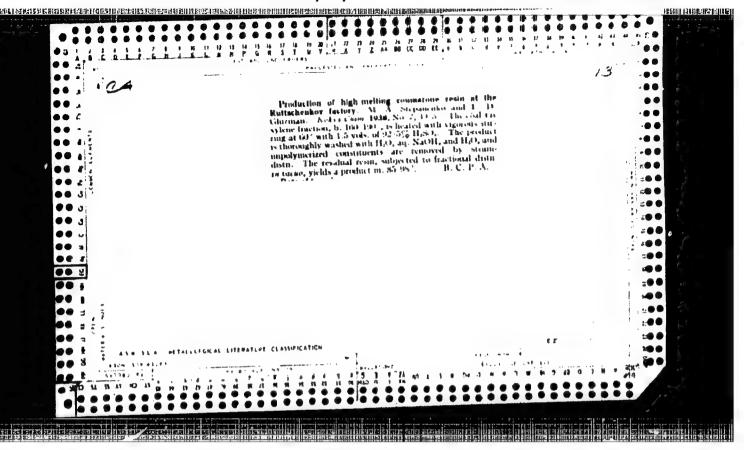
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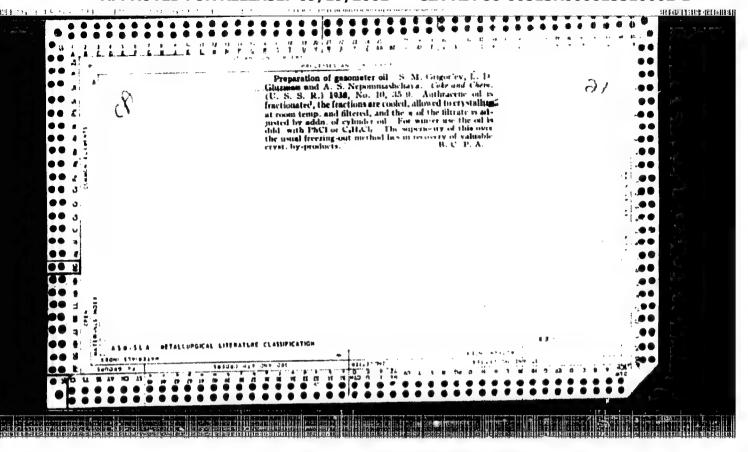


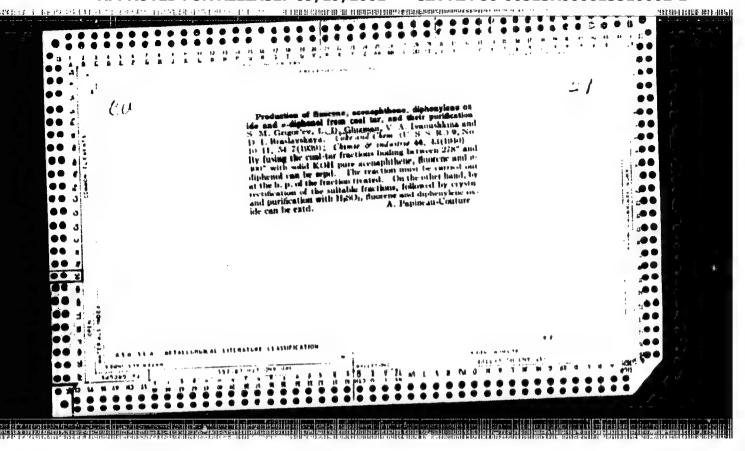


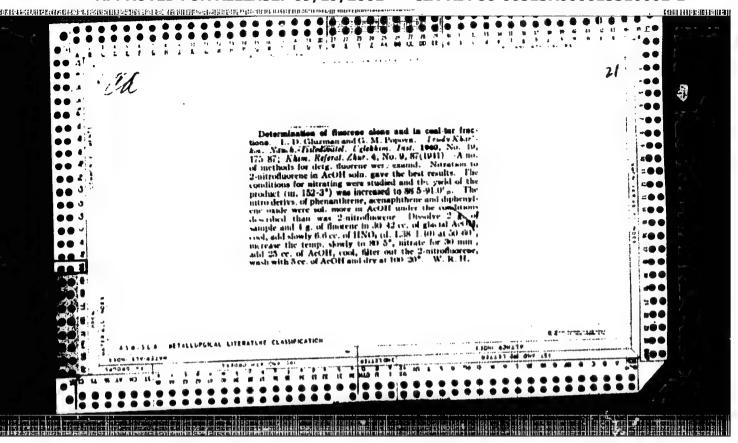


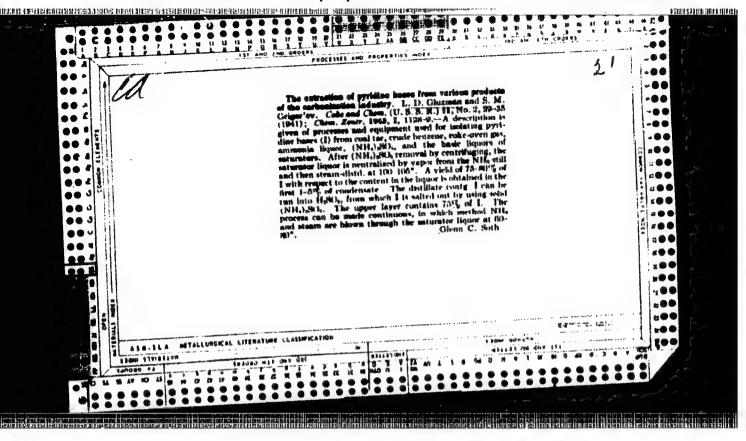


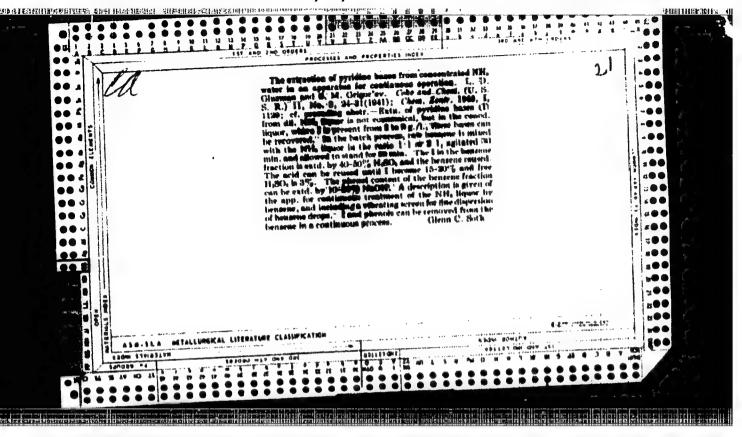


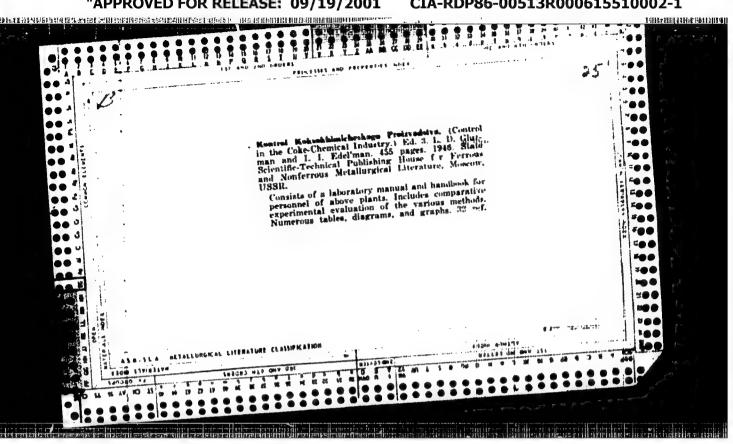


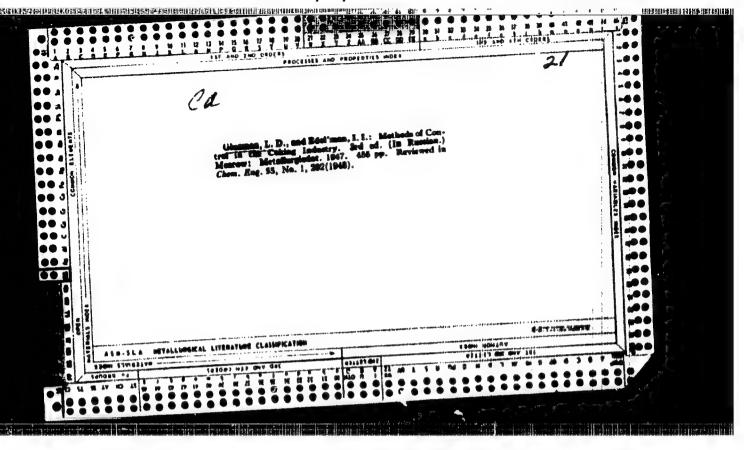


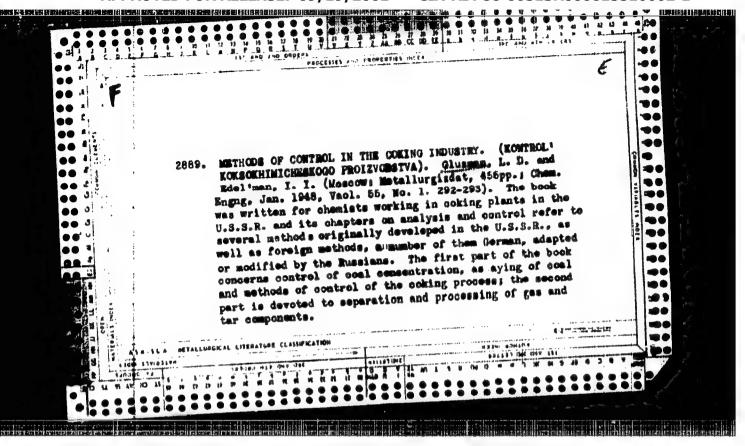


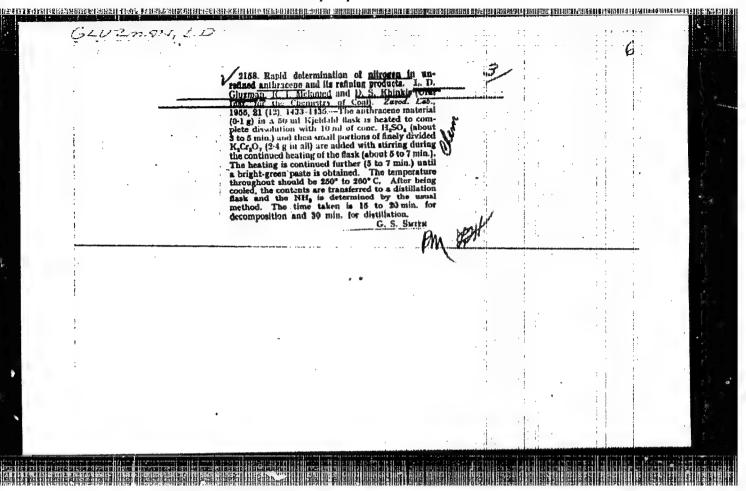










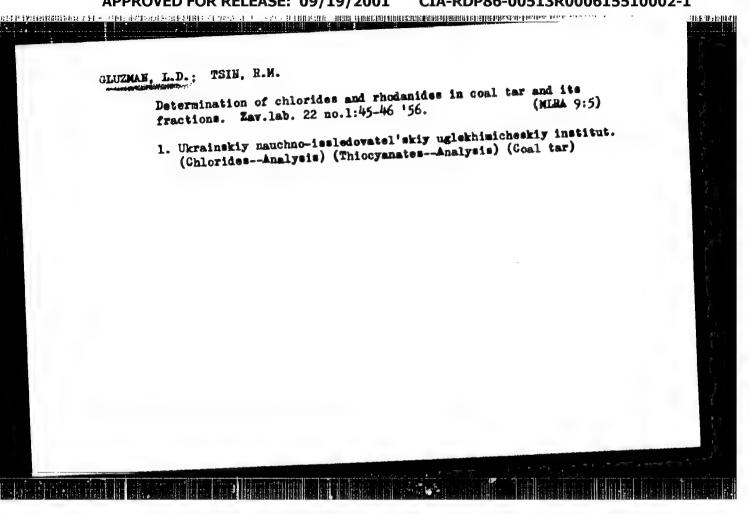


LITVINENKO, M.S.; NOSALEVICH, I.M.; GLUZMAE, L.D.; GIMMEL'SHTEYN, T.Ye.;
KOLTUN, R.M.

Tasks of the byproduct coking industry in augmenting the number of coke-oven by-products. Koks i khim. no.3:41-45 '56. (MLRA 9:8)

1. Ukrainskiy/uglekhimicheskiy institut (for Litvinenko, Mosalevich, Gluzman); 2. Giprokoks (for Gimmel'shteyn); 3. Khar'kovskiy koksokhimicheskiy savod.

(Coke industry)



GIUZMAN, Igubov' Davydovna; EDEL'MAH, Ita Iosifovna; FOSS, E.I., otvetstvennyy Fedeltor; SISTAVSKAYA, Ye.K., redaktor izdatel'stva; LIBERIEE, S.S., redaktor izdatel'stva; ANDREYEV, S.P., tekhnicheskiy redaktor

[Leboratory control of the by-product coke industry] Laboratornyi kontrol\* kokeokhimicheskogo proisvodstve. Izd. 4-oe, perer. i dop. Khar\*kov. Gos.mauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 635 p.

(Goke industry)

GLUZMUN, L.D.

AUTHOR: Gluzman, L.D.

66-1-14/21

TITLE:

Flash Evaporation of Coal Tar. (Odnokratnoye isparentye

kamennougolnoy smoly)

iskapa kalabusahodaksi kalisadin ma alekkereksi kanaki bisatekseli kaluki dukumah libi abata: malabu ingarebaka

PERIODICAL: Koks i Khimiya, 1957, No.1, pp. 45 - 49 (USSR)

ABSTRACT: Flash evaporation curves (relationship between the temperature of evaporation and the proportion of distillate obtained) for coal tars produced on the Zaporozhskiy and Gorlovskiy ned) for coal tars produced on the Zaporozhskiy and Gorlovskiy Coke Oven Works were determined. The apparatus used was similar to that described in Ref.2. Characteristics of coal tars lar to that described in Ref.2. Characteristics of coal tars investigated are given in Table 1 and their flash evaporation curves in Fig.1. The yield of phenols, bases and naphthalene are given in Table 2 and Fig.2. The distribution of fractions of coal tar between the distillate and eitch during flash evaporation at various temperatures (300 - 406 °C) is given in Table 3. Analyses of pitch produced during flash evaporation of coal tar from the Zaporozhskiy Works (for 1954) is given in Table 4. The dependence of softening temperature of pitch on the percentage of distillate and the temperature of flash evaporation is shown in Fig.3, and their content of toluene insoluble and free carbon in Fig.4. The dependence between the softening temperature of pitch (y) and the temperature of flash evaporation (x) can be expressed by an equation

Flash Evaporation of Coal Tar.

68-1-14/21

486 69111 1993 346 890 1991 1994 19

y = 0.835x-250. x and y in °C). The equation holds within flash evaporating temperatures 300 - 420 °C. The dependence of the percent content of toluene insoluble substances in pitch (y) on the flash evaporation temperature (x) can be expressed by an equation y = 0.715x - 46.5. The results of the investigation indicated that within the temperature range 300 - 400 C, the flash evaporation curves for tars from both works practically concide and are represented by a straight line. An increase in flash evaporation temperature up to 440°C (and generally above 410°C) leads to losses of phenols and does not increase the yield of naphthalene. A complete recovery of technically useful phenols and naphthalene in the distillate takes place at a flash distillation temperature of 380 - 400 °C. With increasing flash evaporation temperature above 380 °C, the content of high boiling components in the distillate increases which leads to a deterioration in the quality of anthracene oil. The data obtained confirm the expediency of collection of wo anthracene fractions for the production of a good-quality product for preserving railway sleepers and a raw anthracene. There are 4 tables, 5 graphs and 3 Slavic references.

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#### "APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000615510002-1 TO SECOND SECOND

AUTHOR:

Gluzman, L. D.

68-58-4-10/21

TITLE:

The Production of High Concentration Anthracene and Carbozole from Raw Anthracene by kecrystallisation from Solvents (Polucheniye vysokoprotsentnykh antratsena i karbazola iz syrogo antratsena perekristallizatsiyey

iz rastvoriteley)

PERIODICAL: Koks i Khimiya, 1958, Nr 4, pp 35-42 (USSR)

ABSTRACT: On the basis of literature data and previous work on the subject carried out by UKhIN the author proposed a scheme for the beneficiation of raw anthracene with a mixture of pyridine bases and toluene (a diagram is given). The scheme was designed on the basis of the following considerations: a) Raw material - redistilled raw anthracene containing 25-30% of anthracene, 10-15% of carbozole; 95% of the product boils out to 350°C (the temperature corrected). b) Solvent: a mixture of light pyridine bases (mainly pyridine) with toluere in a ratio of 1:1 by weight. Bases should boil out to 200°C. The amount of solvent is calculated as 7.5 - 8 parts per part of carbozole in the raw anthracene. c) The apparatus and the course of

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The Production of High Concentration Anthracene and Carbozole from Raw Anthracene by Recrystallisation from Solvents

beneficiation are shown in the diagram. There are 5 tables, 1 figure and 4 references, all of which are Soviet.

ASSOCIATION: UKHIN - UKRAINSKIY WALEKHIMCHESKIY INSTITUT

- 1. Anthracenes--Production 2. Carbazolss--Production
- 3. Anthracenes-Crystallization 4. Carbazoles-Crystallization
- 5. Organic solvents--Performance

Card 2/2

#### "APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000615510002-1 ्रेत्र । स्टिन्द्रा : सम्बद्धानाम् । स्टिन्द्रा : सम्बद्धानाम् । स्टिन्द्रा : स्टिन्द्रा : स्टिन्द्रा : स्टिन्

AUTHOR:

Gluzman, L.D.

sov/68-58-2-11/20

TITIE:

The Production of Phenanthrene of Various Degrees of Purity (Polucheniye fenantrena razlichnoy stepeni chistoty)

PERIODICAL:

Koks i Khimiya, 1959, Nr 2, pp 39 - 43 (USSR)

ABSTRACT: The possibility of production of technically pure phenanthrene (70-85%) from raw anthracene, anthracene oil, mother liquor from beneficiation of raw anthracene by solvents, etc. was demonstrated. A method of producing phenanthrene of any desired degree of purity from technical phenanthrene was developed. The method consists of fusing of the technical product with 20% of solid The fusion takes place in two stages: potassium hydroxide. The fusion takes place in two stage at 240 - 260 °C carbozol reacts with alkali, then the temperature should be increased to 300 - 335 °C and retained for 3 hours. On this treatment practically all the components of technical phenanthrene are transferred into the alkali layer. After the separation of hydrocarbon and alkali layer, the former is re-distilled in order to separate completely alkali and coking residue. The results of alkali treatment are shown in Table 4. In order to remove anthracene, the re-distilled product Cardl/2 is fused for 3-4 hours at 130 - 140 °C with maleic

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The Production of Phenanthrene of Various Degrees of Purity

anhydride added in a proportion of 110% of the theoretical (calculated on anthracene). Then the product is treated with 15% solution of sodium hydroxide at 100 - 105 °C in with 15% solution of sodium hydroxide at 100 - 105 order to separate the excess of maleic anhydride. hydrocarbon separated from alkali solution is redistilled and recrystallised twice from alcohol. The product so obtained is free from anthracene, carbozol and diphenyl-enesulphide and contains above 99% of pure phenanthrene melting at a temperature of about 100 °C. There are 4 tables and 6 references, 3 of which are English, 1 Soviet, 1 German and 1 French.

ASSOCIATION: UKhIN

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000615510002-1"

S/068/60/000/010/001/001 B071/E435

AUTHORS: Gluzman, L.D., Gilyazetdinov, L.P. and

TITLE: On the Utilization of High Boiling Coal Tar Fractions

for the Production of Carbon-Black

PERIODICAL: Koks i khimiya, 1960, No.10, pp.51-54

TEXT: The problem of production of an active carbon black from raw materials derived from the coking by-products and the development of technological and GOST standards for coal tar raw materials for the production of carbon black were investigated. Typical samples of coal-tar oils (creosote absorption oil; a mixture of absorption and anthracene oil; anthracene fraction II; pitch distillate) from the Kadiyevsk and Zaporozhsk Coking Works were taken for the investigation. Physico-chemical characteristics of these oils and, for comparison, of some petroleum oils are given in Table 1. Group-structural analysis of the petroleum and coal tar oils was calculated by the methods given in earlier works (Ref. 3 and 4). The product of the total number of benzene rings in the molecule and the content of carbon in the aromatic structures, named "aromatization factor" Card 1/4

## S/068/60/000/010/001/001 E071/E435

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On the Utilization of High Boiling Coal Tar Fractions for the Production of Carbon-Black

(A=KoCa) was conditionally taken as the main physico-chemical characteristic of the raw materials. This index at Ca & 85% characterizes the influence of the chemical composition of the raw material on the yield and properties of carbon black. coal-tar oils for the production of anthracene carbon black was carried out on an experimental plant with a throughput of 10 kg/hr under the following conditions: consumption of coke-oven gas for the carburization of oils - 10 m3/kg; the temperature of carburized mixture - 360 to 380°C; the distance between burners and precipitating surface - 46 mm; overflow of tar from the carburettor - 6 to 9% on the starting raw material. experimental samples of carbon-black did not differ substantially in their physico-chemical and physico-mechanical properties and corresponded to the requirements of GOST 7885-56. The yields of carbon-black from the individual oils are given in Table 2. Testing of the oils for the production of active furnace carbonblack was carried out on a pilot plant NIIShP, described in Ref.5. Card 2/4

S/068/60/000/010/001/001 E071/E435

On the Utilization of High Boiling Coal Tar Fractions for the Production of Carbon-Black

Technological conditions were kept the same for all types of raw materials; throughput was 20 kg/hr with an air consumption of 6.5 m<sup>3</sup>/kg, the temperature of the process varied from 1200 to 1300°C depending on the type of raw material. The experimental results are given in Table 3. It was found that coal tar oils in 79 to 92% consist of di- and tri-cyclic aromatic hydrocarbons. The most aromatized is pitch distillate. The yield of active anthracene carbon-black increases with increasing number of rings in the molecule and the content of aromatic carbon in the raw Anthracene fraction and pitch distillate present a high-quality raw material for the production of active anthracene material. The yield, specific surface and oil number of carbon-black. active furnace carbon black increase with increasing number of rings in the molecule and the content of carbon in aromatic structures of the raw material. In order to obtain moderately structurized carbon-black more suitable for rubber than highly In order to obtain moderately structurized black) absorption creosote oil, anthracene oil, anthracene fraction and mixtures of pitch distillate and

Card 3/4

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n the Utiliza Production of	ation of High Boiling Coal Tar Fractions for the Carbon-Black	
anthracene fra There are 3 ta German.	action II with petroleum oils can be used. ables and 5 references; 3 Soviet, 1 English and UKhIN, Gluzman, L.D.	
	Nauchno-issledovatel skiy institut shinnoy promyshlennosti (Scientific Research Institute of the	
	Tyre Industry) Gilyazetdinov, L.P.; Kadiyevskiy sazhevyy zavod (Kadiyevka Carbon Black Works) Molchanov, B.K.	6
ard 4/4		

S/068/61/000/001/001/001 E071/E235

CHINA CONTROL BECANING THE TRANSPORT OF THE BOARD OF THE CONTROL O

AUTHORS:

Gluzman, L. D., Nikitenko, A. G. and Tsin, R. M.

TITLE:

Production of Technical Pyrene

PERIODICAL:

Koks i khimiya, 1961, No. 1, pp. 52-55

TEXT: Pyrene is one of the important raw materials for the production of dyes and for this reason, the authors carried out an investigation of the potential resources, methods of separation and treatment of narrow pyrene fraction suitable for the preparation of products of various qualities from coal tar. In the USSR the coal tar is treated mainly on continuous plants for the production of a standard medium temperature pitch. The production of a high temperature pitch is done not by team distillation, but by oxidation with air. Therefore, the raw materials for the production of pyrene are not "steam" but "air" pitch distillates. The pitch distillates (from the Zaporozh'ye Coking Works) taken for the investigation had the following properties: s.g. 1.120 at 20°C, pyrene content 4.85%; beginning of boiling 140°, 10% at 280°, 19% at 300°, 30% at 336°; 40% at 355°, 52% at 382°, 60% at 393°, 72% at 410°, 80% at 421°C. The distillates were fractionated on a

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# \$/068/61/000/001/001/001 E071/E235

Production of Technical Pyrene

laboratory column equivalent to 13-15 theoretical plates. distillation, two narrow pyrene fractions were collected: 384-388°C amounting to 6.5% of the initial pitch distillate, containing 33.0% of pyrene and 2) 388-395°C amounting to 8% and containing 48.2% of pyrene. The raw pyrene fractions were submitted to recrystallisation from various solvents. Optimum results were obtained from 30% aqueous pyridine and 30% alcoholic solution of solvent naphtha. The crystallisation conditions and results obtained are tabulated. It was found that recrystallisation of raw pyrene fractions containing less than 40% of pyrene give a mixture of pyrene with fluoranthen, which cannot be further enriched by this method and repeated recrystallisations lead only to losses of pure products, e.g., after four recrystallisations of fraction containing 27% of pyrene a product containing about 45% of pyrene was obtained with pyrene recovery of 58.4%. Subsequent Fractions containing 40% recrystallisations were ineffective. and more of pyrene can be easily enriched to 75-80%. The more concentrated is the initial pyrene fraction, the more concentrated

Card 2/4

CIA-RDP86-00513R000615510002-1"

APPROVED FOR RELEASE: 09/19/2001

S/068/61/000/001/001/001 E071/E235

Production of Technical Pyrene

for the production of carbon black. The technological scheme for the production of technical pyrene is diagramatically shown in the text. There are 3 tables, 1 figure and 7 references: 3 Soviet and 4 non-Soviet.

ASSOCIATION: UKhIN

Card 4/4

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Gluzman, L. D., Nikitenko, A. G.

TITLE:

**AUTHORS:** 

Concerning the question of fluoranthen separation

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 3, 1961, 626 - 628

TEXT: A method for the separation of fluoranthen from coal-tar pitch distillates or an anthracene oil fraction is described. According to data obtained in the institute of the present authors coal-tar contains about 3.5% of fluoranthen and the companion compound pyreme in an amount of up to 1%. Several methods for separation of fluoranthen and separation of the latter from pyreme are described, e.g., in publications by 0. Kraber et al. [Ref. 1: End81 und Kohle, 9, 637 (1955)], P. P. Karpukhin and N. M. Slominskiy [Ref. 7: Koks i khimiya, 10, 41 (1938)], and J. Szuba [Ref. 8: Przem. Chem., 12, 6, 316 (1956)]. The method described by 0. Kruber was successfully proved by the present authors. Only the use of fluoranthen for production of intermediates and dyestuffs is mentioned in literature. The present authors assume that fluoranthen could be used simultaneously with other aromatic hydrocarbons as raw material in the production of synthetic resins of the type based on anthracene, naphthaline etc., such as described by

Card 1/5

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Concerning the question of fluoranthen separation

Wegler. It is also stated that almost the whole processing of coal-tars in the USSR occurs by a continuous method producing a pitch with a softening point of about 70°C which is converted by "air oxidation" and not "steam treatment" to a high-melting (150°C) product. Therefore the method described by the Polish authors [Ref. 8: Przem. Chem., 12, 11, 610 - 616 (1956)] is not suitable for the USSE, and in the present experiments only "air-oxidized" coal-tar pitch distillates and anthracene oil fractions were investigated (Table 1). The experiments were pairfied out under the assistance of T. A. Davydova. The pitch distillates were rectified on a 2 m column (diameter 40 mm) with an efficiency of 13 - 15 theoretical plates. at atmospheric pressure, and the fraction boiling at 370 - 385°C was withdrawn with a 5.7% yield containing 68% fluoranthem. From anthraceme oil II the yield of the fluoranthen fraction was 14.5% with a fluoranthen content of 75% and a pyrene content of 21%. These fractions were recrystallized from ethanol, methanol, white spirit, pyridine, 30% pyridine, solvent, a mixture of 30% solvent and 70% ethanol, toluene, xylene or gasoline. Best results were obtained with the 30% aqueous solution of pyridine, gasoline and the mixture 30% solvent + 70% ethanol. (Table 2). If the ratio fluoranthem : pyreme is 3.5 : 1, a third recrystalligation is necessary giving only a 15 - 25% fluoranthen yield. Anthracene cil II is a better raw

Card 2/5

Concerning the question of fluoranthen separation

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material than the coal-tar pitch distillates. After a threefold recrystallization a 99 - 100% fluoranthen (melting point 109.2°C) with a 4% yield in relation to the anthracene oil II was obtained. A technological scheme for the production of fluoranthen according to the present results is tested presently. There are 2 tables and 9 references: 3 Seviet-blec and 6 non-Soviet-bloc. The references to the English-language publications read as follows: M. C. Kloetzel, Holly E. Mertel, J. Am., Chem. Soc., 72, 4786 (1950); Th. Holbro, J. Appl. Chem., 3, 1 - 9 (1953).

ASSOCTATION: Ukrainskiy nauchno-issledovatel skiy uglekhimicheskiy institut (Tkrainian Scientific Research Institute of Coal Chemistry)

SUBSCITED: April 12, 1960

Card 3/5

\$/081/62/000/014/023/039 B166/B144

AUTHORS:

Molchanov, B. A., Gluzman, L. D., Gilyazetdinov, L. P., Chaykun, K. I.

ondjami, s. 1

TITLE:

Pitch Jistillate, a new form of raw material for the

production of carbon black

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1962, 532, abstract 14M2O4 (Vestn. tekhn. i ekon. inform. N.-i in-t tekhn.-ekon. issled. Gos. kom-ta Sov. Min. SSSR po khimii, no. 12, 1961, 23 - 24)

TEXT: Industrial test results for a trial batch of pitch distillate (PD) are given, this being got by oxidizing and coking coal-tar pitch to form a highly aromatized product used in the manufacture of carbon black. The industrial process for producing the carbon black is practically the same as when producing spray burner black from anthracene fraction. It is established that both these forms of carbon black have the same physicochemical properties but the yield of the carbon black from PD is 2.3% higher. The experimental carbon black fulfils the requirements of

Card 1/2

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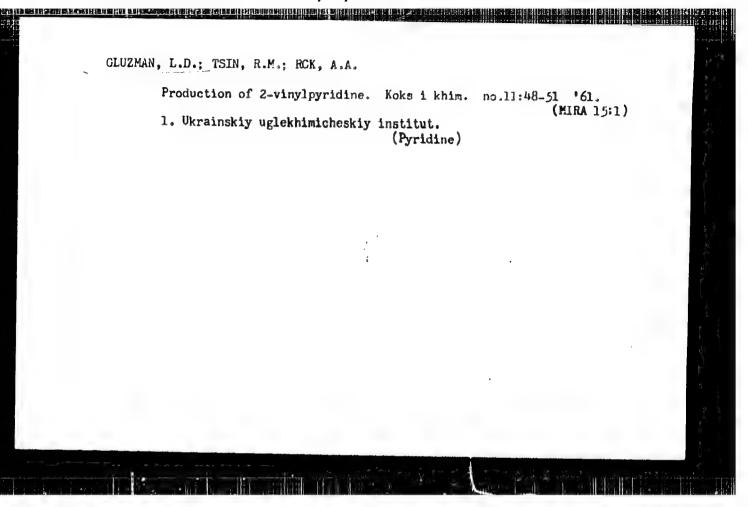
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S/081/62/000/014/023/039 B166/B144

Pitch distillate, a new form...

FOCT 7885-56 (GOST 7885-56). PD dissolves well at a temperature > 50°C in green oil and catalytic gas oil; the mixtures obtained are transportable. To avoid the burners coking up in continued operation it is expedient to use PD mixed with the anthracene fraction (mixtures with a small PD content have been tested). When 5 - 10% PD is added to green oil the yield of spray burner black is increased by 3%. PD is being introduced into the production of spray burner and lamp black to replace the anthracene fraction which is in short supply. Available stocks of PD also permit of its use for partly replacing green oil. [Abstracter's note: Complete translation.]

:Card 2/2



8/081/63/000/004/028/051 B149/B186

AUTHORS:

Gluzman, L. D., Leyba, V. S., Davidyan, D. H., Yefimenko, V. M.

TITLE:

The preparation of diphenic acid from phananthrene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 461, abstract 4N78, (Sb. nauchn. tr. Ukr. n.-i. uglekhim, in-t.", no. 13 (35), 1962, 144 - 156)

TEXT: In order to develop an industrial method for the preparation of diphenic acid (I), a detailed study was made of liquid-phase exidation of both pure and commercial grade phenanthrene (II) with H<sub>2</sub>O<sub>2</sub> and CH<sub>3</sub>COOH (III). The reaction was performed under various conditions with successive alteration of the parameters affecting the course of the exidation: ratio of II, H<sub>2</sub>O<sub>2</sub> and III, concentrations of H<sub>2</sub>O<sub>2</sub> and III, temperature, duration of H<sub>2</sub>O<sub>2</sub> addition and duration of exidation, and intensity of stirring during the addition of H<sub>2</sub>O<sub>2</sub> and during auto-exidation. The effect of various catalysts (such as (NH<sub>4</sub>)<sub>2</sub>MeO<sub>4</sub>, MgSO<sub>4</sub>, MnSC<sub>4</sub>, CuSO<sub>4</sub>, KHSO<sub>4</sub>, CH<sub>3</sub>COOMa, (CH<sub>3</sub>COO)<sub>2</sub>CO, V<sub>2</sub>O<sub>5</sub>, chrome-nickel alum and others), of different sorts of steel proposed Card 1/3

5/081/63/000/004/028/051 B149/B186

The preparation of diphenic acid...

for the construction of the pilot plant [1X18H9T (1Kh18K9T) and 1X18H12M9T (1Kh18N12M9T)], of the quality of the initial II and its admixtures were investigated. The optimum conditions were found to be; ratio (in parts by weight) II:III:H202 (30%) = 1:5:3.2, temperature 90-920, duration of oxida-The period of addition of  $H_2O_2$  has no effect on the yield of 1. Stirring during the addition of H2O2 and during the reactions must be slow. The reaction can be achieved without catalysts (the ones listed above have no positive effect) with a 75-80% yield of I. The presence of anthracene (10-20%) and carbazole (2-5%) admixtures in II has no appreciable effect on the yield and quality of I. Optimum conditions for the isolation of I were found. The most complete isolation and highest degree of purity was achieved by: distillation of III under vacuum at 75% to 1/3 of the volume and cooling of the residue to 15°. The orystals which separate are washed on the filter with 10% solution of III. The yield of I (with m.p. - 2280) is 65-68%. The solubility of I in III, H2C, CH3COCH3, dioxane, CH3OH, C2H5OH, C6H6 and xylene was determined over the range 20-900 (the results are given in the form of graphs. For organic solvents, I is least soluble in CgH Card 2/3

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ACCESSION NR: AP4009235

S/0068/64/000/001/0038/0041

AUTHOR: Gluzman, L. D.; Ruzhina, I. Ye.

TITLE: Producing phenanthrene, fluoranthene, and pyrene under commercial

conditions

SOURCE: Koks i khimiya, no. 1, 1984, 38-41

TOPIC TAGS: phenanthrene, fluoranthene, pyrene, commercial production, recovery, fractionation, anthracene oil, pitch distillate.

ABSTRACT: Plant-scale work at the Inepropetrousk Coke-Chemical Plant on recovery of phenanthrene, fluoranthene and pyrene by fractionating anthracene oil and pitch distillates confirmed earlier data from UKhIN that anthracene oil is the optimum crude for phenanthrene and fluoranthene, and pyrene is best recovered from pitch oil. Data are presented showing the conditions for separating the individual fractions, the amounts and the yields of the desired products. Orig. art. has: 4 tables.

Card 1/2

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RUZHINA, I.Ye.; RASHKEVICH, I.Ya.; ITKINA, R.A.; GLUZMAN, L.D.; Prinimali uchastiye: DEMCHENKO, L.G.; GOL'PERINA, R.L.

Curves of the single-stage evaporation and of the true temperatures in the boiling of raw materials for pyrene production. Koks i khim. no.3:48-52 '64. (MIRA 17:4)

1. Dnepropetrovskiy koksokhimicheskiy zavod (for Ruzhina, Rashkevich, Itkina). 2. Ukrainskiy uglekhimicheskiy institut (for Gluzman).

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TITLE: Chemistry a	nd technology of acenapht	hylene production			1
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TOPIC TAGS: acenap	hthylene, acenaphthene, d	ehvdrogenation			
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